

ENERGY STORAGE SOLUTIONS

NOTE: WE OFFER CUSTOM SOLUTIONS TO MEET YOUR UNIQUE REQUIREMENTS



1 12.8V-100Ah



VOLTAGE	:	12.8V
CAPACITY	:	100Ah (C5,25 °C)
ENERGY	:	1.2kWh
CYCLE LIFE	:	≥3000 CYCLES@1C 70% DOD (0.5C, 25 ±2C)
COMMUNICATION		
COMMUNICATION	:	RS485/CAN
GENERAL SPECIFICATION		
MONTHLY SELF DISCHARGE	:	<3
EFFICIENCY OF CHARGE	:	100% @ 0.2C
EFFICIENCY OF DISCHARGE	:	96-99% @ 1C
CHARGE CUT-OFF VOLTAGE	:	14.6V
CHARGE CURRENT	:	20A
MAX CHARGE CURRENT	:	50A
DISCHARGE CUT-OFF VOLTAGE	:	11V
CONTINUOUS DISCHARGE CURRENT	:	100A
OPERATING TEMPERATURE	:	0 °C TO 55 °C (32F TO 131F) @60±25% RELATIVE HUMIDITY
RELATIVE HUMIDITY	:	5%~95%
CELL & METHOD	:	LITHIUM-IRON PHOSPHATE (LiFePO4)
PLASTIC CASE	:	IRON
DIMENSIONS	:	213*135*275mm

ENERGY STORAGE SOLUTIONS

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2 25.6V-100Ah



VOLTAGE	:	25.6V
CAPACITY	:	100Ah (C5,25 °C)
ENERGY	:	2.56kWh
INTERNAL RESISTANCE	:	≤30m
CYCLE LIFE	:	≥3000 CYCLES@1C 80% DOD

COMMUNICATION

COMMUNICATION	:	RS485/CAN
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GENERAL SPECIFICATION

MONTHLY SELF DISCHARGE	:	<3
EFFICIENCY OF CHARGE	:	100% @ 0.2C
EFFICIENCY OF DISCHARGE	:	96-99% @ 1C
CHARGE CUT-OFF VOLTAGE	:	29.2V±0.2V
CHARGE CURRENT	:	20A
MAX CHARGE CURRENT	:	50A
DISCHARGE CUT-OFF VOLTAGE	:	20V
CONTINUOUS DISCHARGE CURRENT	:	100A
OPERATING TEMPERATURE	:	0 °C TO 55 °C (32F TO 131F) @60±25% RELATIVE HUMIDITY
RELATIVE HUMIDITY	:	5%~95%
CELL & METHOD	:	LITHIUM-IRON PHOSPHATE (LiFePO4)
PLASTIC CASE	:	IRON
DIMENSIONS	:	253*333*254mm

ENERGY STORAGE SOLUTIONS

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3 25.6V-200Ah



VOLTAGE	:	25.6V
CAPACITY	:	200Ah (C5,25 °C)
ENERGY	:	5.12kWh
CYCLE LIFE	:	≥3000 CYCLES@1C 80% DOD
COMMUNICATION		
COMMUNICATION	:	RS485/CAN (BASED ON TYPE OF BMS)
GENERAL SPECIFICATION		
MONTHLY SELF DISCHARGE	:	<3
EFFICIENCY OF CHARGE	:	100% @ 0.2C
EFFICIENCY OF DISCHARGE	:	96-99% @ 0.2C
CHARGE CUT-OFF VOLTAGE	:	29.2V± 0.2V
CHARGE CURRENT	:	20A
MAX CHARGE CURRENT	:	50A
DISCHARGE CUT-OFF VOLTAGE	:	20V
CONTINUOUS DISCHARGE CURRENT	:	100A
OPERATING TEMPERATURE	:	0 °C TO 55 °C (32F TO 131F) @60±25% RELATIVE HUMIDITY
RELATIVE HUMIDITY	:	5%~95%
CELL & METHOD	:	LITHIUM-IRON PHOSPHATE (LiFePO4)
PLASTIC CASE	:	IRON
DIMENSIONS	:	253*333*254mm

ENERGY STORAGE SOLUTIONS

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4 48V-100Ah



VOLTAGE	:	48V
CAPACITY	:	100Ah
ENERGY	:	4.8kWh
INTERNAL RESISTANCE	:	≤30m
CYCLE LIFE	:	≥3000 CYCLES@1C 80% DOD

COMMUNICATION

COMMUNICATION	:	RS485/CAN (ONLY FOR PARALLEL OPERATION)
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GENERAL SPECIFICATION

MONTHLY SELF DISCHARGE	:	<3
EFFICIENCY OF CHARGE	:	100% @ 0.2C
EFFICIENCY OF DISCHARGE	:	96-99% @ 1C
CHARGE CUT-OFF VOLTAGE	:	0.2C CHARGE TO 54.7V. THEN 54.7V CHARGE TO 0.02C CUT-OFF
CHARGE CURRENT	:	20A
MAX CHARGE CURRENT	:	50A
DISCHARGE CUT-OFF VOLTAGE	:	37.5V
CONTINUOUS DISCHARGE CURRENT	:	100A
OPERATING TEMPERATURE	:	0 °C TO 55 °C (32F TO 131F) @60±25% RELATIVE HUMIDITY
RELATIVE HUMIDITY	:	5%~95%
CELL & METHOD	:	LITHIUM-IRON PHOSPHATE (LiFePO4)
PLASTIC CASE	:	IRON
DIMENSIONS	:	595*410*141mm

ENERGY STORAGE SOLUTIONS

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5 48V-200Ah



VOLTAGE	:	48V
CAPACITY	:	200Ah
ENERGY	:	9.6kWh
INTERNAL RESISTANCE	:	≤30m
CYCLE LIFE	:	≥3000 CYCLES@1C 80% DOD

COMMUNICATION

COMMUNICATION	:	RS485/CAN (ONLY FOR PARALLEL OPERATION)
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GENERAL SPECIFICATION

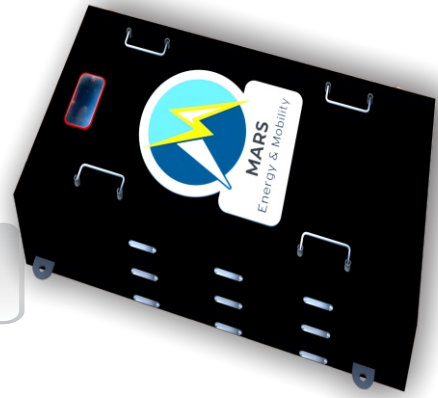
MONTHLY SELF DISCHARGE	:	<3
EFFICIENCY OF CHARGE	:	100% @ 0.2C
EFFICIENCY OF DISCHARGE	:	96-99% @ 1C
CHARGE CUT-OFF VOLTAGE	:	0.2C CHARGE TO 54.7V. THEN 54.7V CHARGE TO 0.02C CUT-OFF
CHARGE CURRENT	:	20A
MAX CHARGE CURRENT	:	50A
DISCHARGE CUT-OFF VOLTAGE	:	37.5V
CONTINUOUS DISCHARGE CURRENT	:	100A
OPERATING TEMPERATURE	:	0 °C TO 55 °C (32F TO 131F) @60±25% RELATIVE HUMIDITY
RELATIVE HUMIDITY	:	5%~95%
CELL & METHOD	:	LITHIUM-IRON PHOSPHATE (LiFePO4)
PLASTIC CASE	:	IRON
DIMENSIONS	:	595*410*282mm

ENERGY STORAGE SOLUTIONS

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6 96V-100Ah



VOLTAGE	:	96V
CAPACITY	:	100Ah
ENERGY	:	9.6kWh
INTERNAL RESISTANCE	:	≤30m
CYCLE LIFE	:	≥3000 CYCLES@1C 80% DOD

COMMUNICATION

COMMUNICATION	:	RS485/CAN
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GENERAL SPECIFICATION

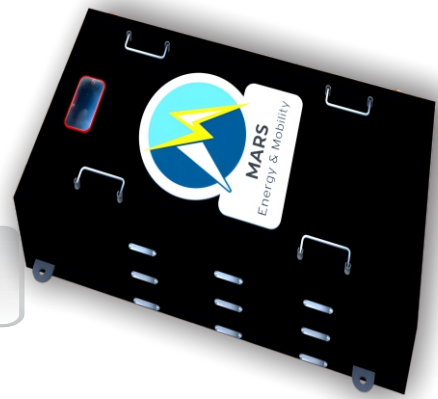
MONTHLY SELF DISCHARGE	:	<3
EFFICIENCY OF CHARGE	:	100% @ 0.2C
EFFICIENCY OF DISCHARGE	:	96-99% @ 1C
CHARGE CUT-OFF VOLTAGE	:	0.2C CHARGE TO 109.5V
CHARGE CURRENT	:	20A
MAX CHARGE CURRENT	:	50A
DISCHARGE CUT-OFF VOLTAGE	:	82.5V
CONTINUOUS DISCHARGE CURRENT	:	100A
OPERATING TEMPERATURE	:	0 °C TO 55 °C (32F TO 131F) @60±25% RELATIVE HUMIDITY
RELATIVE HUMIDITY	:	5%~95%
CELL & METHOD	:	LITHIUM-IRON PHOSPHATE (LiFePO4)
PLASTIC CASE	:	IRON
DIMENSIONS	:	946*467*142.8mm

ENERGY STORAGE SOLUTIONS

NOTE: WE OFFER CUSTOM SOLUTIONS TO MEET YOUR UNIQUE REQUIREMENTS



7 96V-200Ah



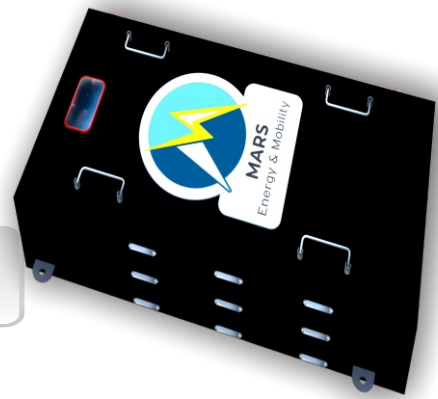
VOLTAGE	:	96V
CAPACITY	:	200Ah (C5,25 °C)
ENERGY	:	19.2kWh
CYCLE LIFE	:	≥3000 CYCLES@1C 80% DOD
COMMUNICATION		
COMMUNICATION	:	RS485/CAN
GENERAL SPECIFICATION		
MONTHLY SELF DISCHARGE	:	<3
EFFICIENCY OF CHARGE	:	100% @ 0.2C
EFFICIENCY OF DISCHARGE	:	96-99% @ 1C
CHARGE CUT-OFF VOLTAGE	:	0.2C CHARGE TO 109.5V
CHARGE CURRENT	:	20A
MAX CHARGE CURRENT	:	50A
DISCHARGE CUT-OFF VOLTAGE	:	82.5V
CONTINUOUS DISCHARGE CURRENT	:	100A
OPERATING TEMPERATURE	:	0 °C TO 55 °C (32F TO 131F) @60±25% RELATIVE HUMIDITY
RELATIVE HUMIDITY	:	5%~95%
CELL & METHOD	:	LITHIUM-IRON PHOSPHATE (LiFePO4)
PLASTIC CASE	:	IRON
DIMENSIONS	:	946*467*285.75mm

ENERGY STORAGE SOLUTIONS

NOTE: WE OFFER CUSTOM SOLUTIONS TO MEET YOUR UNIQUE REQUIREMENTS



8 120V-100Ah



VOLTAGE	:	120V
CAPACITY	:	100Ah (C5,25 °C)
ENERGY	:	12.0kWh
CYCLE LIFE	:	≥3000 CYCLES@1C 80% DOD
COMMUNICATION		
COMMUNICATION	:	RS485/CAN
GENERAL SPECIFICATION		
MONTHLY SELF DISCHARGE	:	<3
EFFICIENCY OF CHARGE	:	100% @ 0.2C
EFFICIENCY OF DISCHARGE	:	96-99% @ 1C
CHARGE CUT-OFF VOLTAGE	:	138.7V±0.2V
CHARGE CURRENT	:	20A
MAX CHARGE CURRENT	:	50A
DISCHARGE CUT-OFF VOLTAGE	:	104.5V
CONTINUOUS DISCHARGE CURRENT	:	100A
OPERATING TEMPERATURE	:	0 °C TO 55 °C (32F TO 131F) @60±25% RELATIVE HUMIDITY
RELATIVE HUMIDITY	:	5%~95%
CELL & METHOD	:	LITHIUM-IRON PHOSPHATE (LiFePO4)
PLASTIC CASE	:	IRON
DIMENSIONS	:	946*467*142.8mm

ENERGY STORAGE SOLUTIONS

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9 120V-280Ah



VOLTAGE	:	120V
CAPACITY	:	280Ah (C5,25 °C)
ENERGY	:	33.6kWh
CYCLE LIFE	:	≥5000 CYCLES@1C 70% DOD (0.5C, 25±2C)
COMMUNICATION		
COMMUNICATION	:	RS485/CAN
GENERAL SPECIFICATION		
MONTHLY SELF DISCHARGE	:	<3
EFFICIENCY OF CHARGE	:	100% @ 0.2C
EFFICIENCY OF DISCHARGE	:	96-99% @ 0.2C
CHARGE CUT-OFF VOLTAGE	:	138.7V
CHARGE CURRENT	:	20A
MAX CHARGE CURRENT	:	50A
DISCHARGE CUT-OFF VOLTAGE	:	104V
CONTINUOUS DISCHARGE CURRENT	:	100A
OPERATING TEMPERATURE	:	0 °C TO 55 °C (32F TO 131F) @60±25% RELATIVE HUMIDITY
RELATIVE HUMIDITY	:	5%~95%
CELL & METHOD	:	LITHIUM-IRON PHOSPHATE (LiFePO4)
PLASTIC CASE	:	IRON
DIMENSIONS	:	488.5*415*250mm

ENERGY STORAGE SOLUTIONS

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MARS
Energy & Mobility

10 240V-280Ah



VOLTAGE	:	240V
CAPACITY	:	280Ah (C5,25 °C)
ENERGY	:	67.2kWh
CYCLE LIFE	:	≥3000 CYCLES@1C 70% DOD (0.5C, 25 ±2C)
COMMUNICATION		
COMMUNICATION	:	RS485/CAN
GENERAL SPECIFICATION		
MONTHLY SELF DISCHARGE	:	<3
EFFICIENCY OF CHARGE	:	100% @ 0.2C
EFFICIENCY OF DISCHARGE	:	96-99% @ 1C
CHARGE CUT-OFF VOLTAGE	:	273.75V
CHARGE CURRENT	:	20A
MAX CHARGE CURRENT	:	50A
DISCHARGE CUT-OFF VOLTAGE	:	206.25V
CONTINUOUS DISCHARGE CURRENT	:	100A
OPERATING TEMPERATURE	:	0 °C TO 55 °C (32F TO 131F) @60±25% RELATIVE HUMIDITY
RELATIVE HUMIDITY	:	5%~95%
CELL & METHOD	:	LITHIUM-IRON PHOSPHATE (LiFePO4)
PLASTIC CASE	:	IRON
DIMENSIONS	:	597*508.5*248.5mm

ENERGY STORAGE SOLUTIONS

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11 384V-100Ah



VOLTAGE	:	384V
CAPACITY	:	100Ah (C5,25 °C)
ENERGY	:	38.4kWh
CYCLE LIFE	:	≥3000 CYCLES@1C 70% DOD (0.5C, 25 ±2C)
COMMUNICATION		
COMMUNICATION	:	RS485/CAN
GENERAL SPECIFICATION		
MONTHLY SELF DISCHARGE	:	<3
EFFICIENCY OF CHARGE	:	100% @ 0.2C
EFFICIENCY OF DISCHARGE	:	96-99% @ 1C
CHARGE CUT-OFF VOLTAGE	:	438V
CHARGE CURRENT	:	20A
MAX CHARGE CURRENT	:	50A
DISCHARGE CUT-OFF VOLTAGE	:	330V
CONTINUOUS DISCHARGE CURRENT	:	100A
OPERATING TEMPERATURE	:	0 °C TO 55 °C (32F TO 131F) @60±25% RELATIVE HUMIDITY
RELATIVE HUMIDITY	:	5%~95%
CELL & METHOD	:	LITHIUM-IRON PHOSPHATE (LiFePO4)
PLASTIC CASE	:	IRON
DIMENSIONS	:	2030*486*540mm

MARS HOME VOLT-1.2 SERIES

12 12.8V-100Ah



VOLTAGE	:	12.8V
CAPACITY	:	100Ah (C5,25 °C)
ENERGY	:	1.2kWh
CYCLE LIFE	:	≥3000 CYCLES@1C 70% DOD (0.5C, 25 ±2C)
COMMUNICATION		
COMMUNICATION	:	RS485/CAN
GENERAL SPECIFICATION		
MONTHLY SELF DISCHARGE	:	<3
EFFICIENCY OF CHARGE	:	100% @ 0.2C
EFFICIENCY OF DISCHARGE	:	96-99% @ 1C
CHARGE CUT-OFF VOLTAGE	:	14.6V
CHARGE CURRENT	:	20A
MAX CHARGE CURRENT	:	50A
DISCHARGE CUT-OFF VOLTAGE	:	11V
CONTINUOUS DISCHARGE CURRENT	:	100A
OPERATING TEMPERATURE	:	0 °C TO 55 °C (32F TO 131F) @60±25% RELATIVE HUMIDITY
RELATIVE HUMIDITY	:	5%~95%
CELL & METHOD	:	LITHIUM-IRON PHOSPHATE (LiFePO4)
PLASTIC CASE	:	IRON
DIMENSIONS	:	333*260*169mm
WEIGHT	:	16 KG

MARS HOME VOLT-2.5 SERIES

13 25.6V-100Ah



VOLTAGE	: 25.6V
CAPACITY	: 100Ah (C5,25 °C)
ENERGY	: 2.56kWh
INTERNAL RESISTANCE	: ≤30m
CYCLE LIFE	: ≥3000 CYCLES@1C 80% DOD
COMMUNICATION	
COMMUNICATION	: RS485/CAN
GENERAL SPECIFICATION	
MONTHLY SELF DISCHARGE	: <3
EFFICIENCY OF CHARGE	: 100% @ 0.2C
EFFICIENCY OF DISCHARGE	: 96-99% @ 1C
CHARGE CUT-OFF VOLTAGE	: 29.2V± 0.2V
CHARGE CURRENT	: 20A
MAX CHARGE CURRENT	: 50A
DISCHARGE CUT-OFF VOLTAGE	: 20V
CONTINUOUS DISCHARGE CURRENT	: 100A
OPERATING TEMPERATURE	: 0 °C TO 55 °C (32F TO 131F) @60±25% RELATIVE HUMIDITY
RELATIVE HUMIDITY	: 5%~95%
CELL & METHOD	: LITHIUM-IRON PHOSPHATE (LiFePO4)
PLASTIC CASE	: IRON
DIMENSIONS	: 278*459*204mm
WEIGHT	: 28 KG

MARS HOME VOLT-4.8 SERIES

14 48V-100Ah



VOLTAGE	: 48V
CAPACITY	: 100Ah
ENERGY	: 4.8kWh
INTERNAL RESISTANCE	: $\leq 30m$
CYCLE LIFE	: ≥ 3000 CYCLES@1C 80% DOD

COMMUNICATION

COMMUNICATION	: RS485/CAN (ONLY FOR PARALLEL OPERATION)
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GENERAL SPECIFICATION

MONTHLY SELF DISCHARGE	: <3
EFFICIENCY OF CHARGE	: 100% @ 0.2C
EFFICIENCY OF DISCHARGE	: 96-99% @ 1C
CHARGE CUT-OFF VOLTAGE	: 0.2C CHARGE TO 54.7V. THEN 54.7V CHARGE TO 0.02C CUT-OFF
CHARGE CURRENT	: 20A
MAX CHARGE CURRENT	: 50A
DISCHARGE CUT-OFF VOLTAGE	: 37.5V
CONTINUOUS DISCHARGE CURRENT	: 100A
OPERATING TEMPERATURE	: 0 °C TO 55 °C (32F TO 131F) @60±25% RELATIVE HUMIDITY
RELATIVE HUMIDITY	: 5%~95%
CELL & METHOD	: LITHIUM-IRON PHOSPHATE (LiFePO4)
PLASTIC CASE	: IRON
DIMENSIONS	: 650*405*212mm
WEIGHT	: 46KG